

PHYSICAL SCIENCES

PAPER 1

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Figure 1: A circuit with two parallel branches. The battery has an EMF of 12 V and an internal resistance of 1 Ω. The switch S is closed. The voltmeter V measures the potential difference across the 4 Ω resistor in the first branch. The ammeter A measures the current through the 4 Ω resistor in the second branch. The voltmeter V₂ measures the potential difference across the 2 Ω resistor in the main circuit.

- 1.1 (4 marks)
- 1.1.1 Calculate the current through the 4 Ω resistor in the second branch.
- 1.1.2 Calculate the potential difference across the 2 Ω resistor.



- 2.1 (2 marks)
- 2.1.1 Calculate the magnitude of the force F required to keep the beam in equilibrium.



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